

## FILM TRAP AND GATE ASSEMBLY FOR A MOTION PICTURE PROJECTOR.

### ABSTRACT

A film trap and gate assembly for use on a motion picture projector. The film trap includes an image aperture and a first and second trap rail assembly. The film trap further includes a stripper plate having an angled stripper blade attached to an attachment flange. The stripper blade is attached to the attachment flange at an at least one degree angle, preferably biased towards the trap body. The film gate includes a projection aperture and a first and second gate rail assembly. A film tensioning assembly is attached to the gate body, the film tensioning device having a deformable body disposing at least two tensioning rollers, and an adjustable tensioning device. When assembled, the film trap and gate assembly forms a film movement channel to guide the film past an illumination source, while reducing the contact between the film strip and the film trap and gate assembly. Consequently, the number of showing of a motion picture film is substantially increased.